

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
44			WOZNEY, JOHN M et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45			HE, WEI WU et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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44	WO 9507982 A1	<input type="checkbox"/>
45	WO 9611259 A1	<input type="checkbox"/>

FILE 'HOME' ENTERED AT 11:14:43 ON 23 JUN 2003

=> file medline  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 11:14:57 ON 23 JUN 2003

FILE LAST UPDATED: 21 JUN 2003 (20030621/UP). FILE COVERS 1958 TO DATE.

On April 13, 2003, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2003 vocabulary. See <http://www.nlm.nih.gov/mesh/changes2003.html> for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (Mathews, L.? or Mathews L.?)/au  
44 MATHEWS, L.?/AU  
44 MATHEWS L.?/AU  
L1 44 (MATHEWS, L.? OR MATHEWS L.?)/AU

=> s (Vale, W.? or Vale W.?)/au  
215 VALE, W.?/AU  
215 VALE W.?/AU  
L2 215 (VALE, W.? OR VALE W.?)/AU

=> s (Tsuchida, K.? or Tsuchida K.?)/au  
0 TSUCHIDA, K.?/AU  
0 TSUCHIDA K.?/AU  
L3 0 (TSUCHIDA, K.? OR TSUCHIDA K.?)/AU

=> s L1 and L2  
L4 9 L1 AND L2

=> d L4 1-9

L4 ANSWER 1 OF 9 MEDLINE  
AN 96069914 MEDLINE  
DN 96069914 PubMed ID: 7589799  
TI Activin and its receptors during gastrulation and the later phases of mesoderm development in the chick embryo.  
AU Stern C D; Yu R T; Kakizuka A; Kintner C R; **Mathews L S;**  
**Vale W W;** Evans R M; Umesono K  
CS Department of Genetics and Development, College of Physicians and Surgeons of Columbia University, New York, New York 10032, USA.  
SO DEVELOPMENTAL BIOLOGY, (1995 Nov) 172 (1) 192-205.  
Journal code: 0372762. ISSN: 0012-1606.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-U31222; GENBANK-U31223  
EM 199512  
ED Entered STN: 19960124  
Last Updated on STN: 19960124  
Entered Medline: 19951226

L4 ANSWER 2 OF 9 MEDLINE

AN 94220967 MEDLINE  
 DN 94220967 PubMed ID: 8167568  
 TI Molecular and functional characterization of activin receptors.  
 AU **Mathews L S; Vale W W**  
 CS Clayton Foundation Laboratories for Peptide Biology, Salk Institute, La Jolla, CA 92037.  
 SO RECEPTOR, (1993 Fall) 3 (3) 173-81. Ref: 23  
 Journal code: 9109671. ISSN: 1052-8040.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 199406  
 ED Entered STN: 19940613  
 Last Updated on STN: 19970203  
 Entered Medline: 19940602

L4 ANSWER 3 OF 9 MEDLINE  
 AN 94130828 MEDLINE  
 DN 94130828 PubMed ID: 8299574  
 TI Hybridization histochemical localization of activin receptor subtypes in rat brain, pituitary, ovary, and testis.  
 AU Cameron V A; Nishimura E; **Mathews L S**; Lewis K A; Sawchenko P E; **Vale W W**  
 CS Clayton Foundation Laboratories for Peptide Biology, La Jolla, California 92037.  
 NC DK-26741 (NIDDK)  
 HD-13527 (NICHD)  
 HL-35137 (NHLBI)  
 +  
 SO ENDOCRINOLOGY, (1994 Feb) 134 (2) 799-808.  
 Journal code: 0375040. ISSN: 0013-7227.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Abridged Index Medicus Journals; Priority Journals  
 EM 199403  
 ED Entered STN: 19940318  
 Last Updated on STN: 19940318  
 Entered Medline: 19940308

L4 ANSWER 4 OF 9 MEDLINE  
 AN 94068580 MEDLINE  
 DN 94068580 PubMed ID: 8248234  
 TI Cloning and characterization of a transmembrane serine kinase that acts as an activin type I receptor.  
 AU Tsuchida K; **Mathews L S**; **Vale W W**  
 CS Clayton Foundation Laboratories for Peptide Biology, Salk Institute for Biological Studies, La Jolla, CA 92037-1099.  
 NC DK26741 (NIDDK)  
 HD13527 (NICHD)  
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1993 Dec 1) 90 (23) 11242-6.  
 Journal code: 7505876. ISSN: 0027-8424.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 OS GENBANK-L19341  
 EM 199401  
 ED Entered STN: 19940201

Last Updated on STN: 19940201  
Entered Medline: 19940104

L4 ANSWER 5 OF 9 MEDLINE  
AN 93366823 MEDLINE  
DN 93366823 PubMed ID: 8395525  
TI Characterization of type II activin receptors. Binding, processing, and phosphorylation.  
AU **Mathews L S; Vale W W**  
CS Clayton Foundation Laboratories for Peptide Biology, Salk Institute, La Jolla, California 92037.  
NC HD-07343 (NICHD)  
HD-13527 (NICHD)  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Sep 5) 268 (25) 19013-8.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199309  
ED Entered STN: 19931015  
Last Updated on STN: 19931015  
Entered Medline: 19930930

L4 ANSWER 6 OF 9 MEDLINE  
AN 93221518 MEDLINE  
DN 93221518 PubMed ID: 8385453  
TI Molecular characterization of rat transforming growth factor-beta type II receptor.  
AU Tsuchida K; Lewis K A; **Mathews L S; Vale W W**  
CS Clayton Foundation Laboratories for Peptide Biology, Salk Institute, La Jolla, CA 92037.  
NC DK26741 (NIDDK)  
HD13527 (NICHD)  
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1993 Mar 31) 191 (3) 790-5.  
Journal code: 0372516. ISSN: 0006-291X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-D25302; GENBANK-L09653; GENBANK-S64630; GENBANK-S64631; GENBANK-S64632; GENBANK-S64635; GENBANK-S64636; GENBANK-S64637; GENBANK-Z19150; GENBANK-Z19151  
EM 199305  
ED Entered STN: 19930521  
Last Updated on STN: 19950206  
Entered Medline: 19930503

L4 ANSWER 7 OF 9 MEDLINE  
AN 92231944 MEDLINE  
DN 92231944 PubMed ID: 1314589  
TI Molecular cloning and binding properties of the human type II activin receptor.  
AU Donaldson C J; **Mathews L S; Vale W W**  
CS Clayton Foundation Laboratories for Peptide Biology, Salk Institute, La Jolla, CA 92037.  
NC DK-26741-11 (NIDDK)  
HD-07343-01 (NICHD)  
HD-13527-12 (NICHD)  
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1992 Apr 15) 184 (1) 310-6.  
Journal code: 0372516. ISSN: 0006-291X.

CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 OS GENBANK-M93415; GENBANK-M97581; GENBANK-M97582; GENBANK-M97583;  
 GENBANK-M97584; GENBANK-M97585; GENBANK-M97586; GENBANK-M97587;  
 GENBANK-M97588; GENBANK-M97589  
 EM 199205  
 ED Entered STN: 19920607  
 Last Updated on STN: 19970203  
 Entered Medline: 19920520

L4 ANSWER 8 OF 9 MEDLINE  
 AN 92205349 MEDLINE  
 DN 92205349 PubMed ID: 1313188  
 TI Cloning of a second type of activin receptor and functional  
 characterization in Xenopus embryos.  
 AU **Mathews L S; Vale W W**; Kintner C R  
 CS Clayton Foundation Laboratories for Peptide Biology, Salk Institute, La  
 Jolla, CA 92037.  
 NC DK-26741 (NIDDK)  
 HD-07343 (NICHD)  
 HD-13275 (NICHD)  
 SO SCIENCE, (1992 Mar 27) 255 (5052) 1702-5.  
 Journal code: 0404511. ISSN: 0036-8075.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199204  
 ED Entered STN: 19920509  
 Last Updated on STN: 19970203  
 Entered Medline: 19920430

L4 ANSWER 9 OF 9 MEDLINE  
 AN 91256317 MEDLINE  
 DN 91256317 PubMed ID: 1646080  
 TI Expression cloning of an activin receptor, a predicted transmembrane  
 serine kinase.  
 AU **Mathews L S; Vale W W**  
 CS Clayton Foundation Laboratories for Peptide Biology, Salk Institute, La  
 Jolla, California 92037.  
 NC DK-26741-11 (NIDDK)  
 HD-07343-01 (NICHD)  
 HD-13527-12 (NICHD)  
 SO CELL, (1991 Jun 14) 65 (6) 973-82.  
 Journal code: 0413066. ISSN: 0092-8674.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199107  
 ED Entered STN: 19910802  
 Last Updated on STN: 19910802  
 Entered Medline: 19910712

=> s activin receptor?  
     2671 ACTIVIN  
     1618 ACTIVINS  
     2877 ACTIVIN  
         (ACTIVIN OR ACTIVINS)  
     602374 RECEPTOR?

L5 689 ACTIVIN RECEPTOR?  
(ACTIVIN(W)RECEPTOR?)

=> s inhibin receptor?  
3238 INHIBIN  
3474 INHIBINS  
4274 INHIBIN  
(INHIBIN OR INHIBINS)  
602374 RECEPTOR?

L6 44 INHIBIN RECEPTOR?  
(INHIBIN(W)RECEPTOR?)

=> s TGF receptor?  
19612 TGF  
156 TGFS  
19635 TGF  
(TGF OR TGFS)  
602374 RECEPTOR?

L7 16 TGF RECEPTOR?  
(TGF(W)RECEPTOR?)

=> s ED>19910520  
L8 6674220 ED>19910520  
(ED>19910520)  
75% OF LIMIT FOR TOTAL ANSWERS REACHED

=> s L5 and L8  
L9 687 L5 AND L8

=> s binding assay?  
625631 BINDING  
1244 BINDINGS  
625904 BINDING  
(BINDING OR BINDINGS)  
436520 ASSAY?  
L10 14787 BINDING ASSAY?  
(BINDING(W)ASSAY?)

=> s L5 and L10  
L11 5 L5 AND L10

=> s L6 and L10  
L12 1 L6 AND L10

=> s L7 and L10  
L13 0 L7 AND L10

=> d L12

L12 ANSWER 1 OF 1 MEDLINE  
AN 2002097512 MEDLINE  
DN 21676791 PubMed ID: 11818494  
TI Inhibin binding protein (InhBP/p120), betaglycan, and the continuing  
search for the **inhibin receptor**.  
AU Bernard Daniel J; Chapman Stacey C; Woodruff Teresa K  
CS Department of Neurobiology and Physiology, Northwestern University,  
Evanston, Illinois 60208, USA.  
NC HD-37096 (NICHD)  
T32-CA09560 (NCI)  
SO MOLECULAR ENDOCRINOLOGY, (2002 Feb) 16 (2) 207-12. Ref: 41  
Journal code: 8801431. ISSN: 0888-8809.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200204  
ED Entered STN: 20020206  
Last Updated on STN: 20020406  
Entered Medline: 20020405

=> d L11 1-5

L11 ANSWER 1 OF 5 MEDLINE  
AN 2000029667 MEDLINE  
DN 20029667 PubMed ID: 10559140  
TI Human activin-A is expressed in the atherosclerotic lesion and promotes the contractile phenotype of smooth muscle cells.  
AU Engelse M A; Neele J M; van Achterberg T A; van Aken B E; van Schaik R H; Pannekoek H; de Vries C J  
CS Academic Medical Center, University of Amsterdam, Department of Biochemistry, Amsterdam and Erasmus University, Department of Endocrinology and Reproduction, Rotterdam, The Netherlands.  
SO CIRCULATION RESEARCH, (1999 Nov 12) 85 (10) 931-9.  
Journal code: 00471103. ISSN: 1524-4571.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199912  
ED Entered STN: 20000113  
Last Updated on STN: 20010521  
Entered Medline: 19991202

L11 ANSWER 2 OF 5 MEDLINE  
AN 1999060112 MEDLINE  
DN 99060112 PubMed ID: 9843440  
TI Characterization of the extracellular ligand-binding domain of the type II **activin receptor**.  
AU Greenwald J; Le V; Corrigan A; Fischer W; Komives E; Vale W; Choe S  
CS Structural Biology Laboratory, The Salk Institute, La Jolla, California 92037, USA.  
NC HD13527 (NICHD)  
SO BIOCHEMISTRY, (1998 Nov 24) 37 (47) 16711-8.  
Journal code: 0370623. ISSN: 0006-2960.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199812  
ED Entered STN: 19990115  
Last Updated on STN: 19990115  
Entered Medline: 19981231

L11 ANSWER 3 OF 5 MEDLINE  
AN 96069914 MEDLINE  
DN 96069914 PubMed ID: 7589799  
TI Activin and its receptors during gastrulation and the later phases of mesoderm development in the chick embryo.  
AU Stern C D; Yu R T; Kakizuka A; Kintner C R; Mathews L S; Vale W W; Evans R M; Umesono K  
CS Department of Genetics and Development, College of Physicians and Surgeons of Columbia University, New York, New York 10032, USA.  
SO DEVELOPMENTAL BIOLOGY, (1995 Nov) 172 (1) 192-205.



Journal code: 0372762. ISSN: 0012-1606.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-U31222; GENBANK-U31223  
EM 199512  
ED Entered STN: 19960124  
Last Updated on STN: 19960124  
Entered Medline: 19951226

L11 ANSWER 4 OF 5 MEDLINE  
AN 95361766 MEDLINE  
DN 95361766 PubMed ID: 7635059  
TI Induction of dorsal mesoderm by soluble, mature Vg1 protein.  
AU Kessler D S; Melton D A  
CS Department of Molecular and Cellular Biology, Howard Hughes Medical  
Institute, Harvard University, Cambridge, MA 02138, USA.  
SO DEVELOPMENT, (1995 Jul) 121 (7) 2155-64.  
Journal code: 8701744. ISSN: 0950-1991.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199509  
ED Entered STN: 19950921  
Last Updated on STN: 19970203  
Entered Medline: 19950911

L11 ANSWER 5 OF 5 MEDLINE  
AN 94252231 MEDLINE  
DN 94252231 PubMed ID: 8194459  
TI Effect of activin on luteinizing hormone-human chorionic gonadotropin  
receptor messenger ribonucleic acid in granulosa cells.  
AU Nakamura K; Nakamura M; Igarashi S; Miyamoto K; Eto Y; Ibuki Y; Minegishi  
T  
CS Department of Obstetrics and Gynecology, Gunma University School of  
Medicine, Japan.  
SO ENDOCRINOLOGY, (1994 Jun) 134 (6) 2329-35.  
Journal code: 0375040. ISSN: 0013-7227.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 199406  
ED Entered STN: 19940707  
Last Updated on STN: 19970203  
Entered Medline: 19940628

L Number	Hits	Search Text	DB	Time stamp
1	1	5885794.pn.	USPAT	2003/06/23 09:31
2	1	6162896.pn.	USPAT	2003/06/23 09:54
3	1	5831050.pn.	USPAT	2003/06/23 09:57
4	1	5861479.pn.	USPAT	2003/06/23 09:59
5	1	6093549.pn.	USPAT	2003/06/23 10:53
11	44	(Lawrence near Mathews.in.) or (Wylie near Vale.in.) or (Kunihiro near Tsuchida.in.)	USPAT; US-PGPUB; EPO; DERWENT	2003/06/23 10:56
16	157	activin adj1 receptor	USPAT; US-PGPUB; EPO; DERWENT	2003/06/23 11:00
21	45	activin adj1 receptor?	USPAT; US-PGPUB; EPO; DERWENT	2003/06/23 11:08
31	6	inhibin adj1 receptor?	USPAT; US-PGPUB; EPO; DERWENT	2003/06/23 11:06
36	12	TGF adj1 receptor?	USPAT; US-PGPUB; EPO; DERWENT	2003/06/23 11:00
41	28	TGF adj1 receptor	USPAT; US-PGPUB; EPO; DERWENT	2003/06/23 11:00
46	4	((Lawrence near Mathews.in.) or (Wylie near Vale.in.) or (Kunihiro near Tsuchida.in.) ) and (activin adj1 receptor?)	USPAT; US-PGPUB; EPO; DERWENT	2003/06/23 11:11
51	73	serine adj1 kinase?	USPAT; US-PGPUB; EPO; DERWENT	2003/06/23 11:10

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010039036 A1	20011108	33	Cloning and recombinant production of receptor(s) of the activin/TGF-beta superfamily	435/69.1
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010049360 A1	20011206		Betaglycan as an inhibin receptor and uses thereof	514/44
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5885794 A	19990323	28	Recombinant production of vertebrate activin receptor polypeptides and identification of receptor DNAs in the activin/TGF-.beta. superfamily	435/69.1
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6162896 A	20001219	33	Recombinant vertebrate activin receptors	530/350

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	435/4; 530/350; 530/388.1		Mathews, Lawrence S. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	424/130.1		Vale, Wylie et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	435/252.3; 435/254.11 ; 435/320.1; 435/325; 435/6; 536/23.5; 536/24.31		Mathews, Lawrence S. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	435/69.1; 530/395		Mathews, Lawrence W. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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1	US 20010039036	<input type="checkbox"/>
2		<input type="checkbox"/>
3	US 5885794	<input type="checkbox"/>
4	US 6162896	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EP 1132472 A1	20010912	61	NOVEL PROTEIN AND UTILIZATION THEREOF	
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EP 771873 A2	19970507		Neuronal cell-specific receptor protein	
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010039036 A1	20011108	33	Cloning and recombinant production of receptor(s) of the activin/TGF-beta superfamily	435/69.1
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010049360 A1	20011206		Betaglycan as an inhibin receptor and uses thereof	514/44
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020137133 A1	20020926		Receptor proteins	435/69.1
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020157126 A1	20021024		Use of follistatin to increase muscle mass	800/18
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020160478 A1	20021031		Short peptides which selectively modulate the activity of protein kinases	435/184
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020164647 A1	20021107		Protein-protein interactions	435/7.1
9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030060398 A1	20030327		Neuronal rescue agent	514/2
10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030082233 A1	20030501		Method and composition for modulating bone growth	424/484
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030096296 A1	20030522		Use of a BMP protein receptor complex for screening bone metabolism actives and cells co-transfected with a type II BMP receptor and a type I BMP receptor	435/7.1
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030103950 A1	20030605		Cell	424/93.21
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030103959 A1	20030605		Methods of providing neuroprotection and/or neurorestoration via the neural activin type IIB receptor	424/94.63
14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5216126 A	19930601	32	Receptor polypeptides and their production and uses	530/350

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1			SUGINO, HIROSHI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2			SUGINO, HIROMU et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	435/4; 530/350; 530/388.1		Mathews, Lawrence S. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	424/130.1		Vale, Wylie et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	435/320.1; 435/325; 530/350; 536/23.5		Wozney, John M. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	530/350		Lee, Se-Jin et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	530/317		Ben-Sasson, Shmuel A.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8			Cimbora, Daniel M. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9			Gluckman, Peter David et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	424/146.1		Lyons, Karen M. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	435/194; 435/320.1; 435/325; 435/69.1; 536/23.2		Rosenbaum, Jan Susan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	435/366		Sharpe, Paul Thomas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13			Hughes, Paul E. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	530/388.22 ; 530/389.1		Cox, Edward T. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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1	EP 1132472 A1	<input type="checkbox"/>
2		<input type="checkbox"/>
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5		<input type="checkbox"/>
6		<input type="checkbox"/>
7		<input type="checkbox"/>
8		<input type="checkbox"/>
9		<input type="checkbox"/>
10		<input type="checkbox"/>
11		<input type="checkbox"/>
12		<input type="checkbox"/>
13		<input type="checkbox"/>
14	US 5216126	<input type="checkbox"/>



	U	1	Document ID	Issue Date	Pages	Title	Current OR
15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5286654 A	19940215	33	Detection and purification of activin polypeptide	436/501
16	<input type="checkbox"/>	<input type="checkbox"/>	US 5453492 A	19950926	16	60 kDa transforming growth factor-.beta.-binding protein and its use to detect or purify TGF-.beta.	530/413
17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5545616 A	19960813	23	Method for predicting and/or preventing preterm labor	514/8
18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5654404 A	19970805	29	Protection against liver damage by HGF	530/387.3
19	<input type="checkbox"/>	<input type="checkbox"/>	US 5658876 A	19970819	18	Activin antagonists as novel contraceptives	514/2
20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5703048 A	19971230	26	Protection against liver damage by HGF	514/12
21	<input type="checkbox"/>	<input type="checkbox"/>	US 5766863 A	19980616	111	Kinase receptor activation assay	435/7.21
22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5807713 A	19980915	30	DNA encoding growth/differentiation factor	435/69.5

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
15	436/536; 530/388.22 ; 530/395; 530/413		Cox, Edward T. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	435/7.1; 530/350; 530/395; 530/402		Butzow, Ralf et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	514/2		Woodruff, Teresa K.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	424/134.1; 424/136.1; 424/178.1; 530/350		Roos, Filip et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	514/12; 514/21; 514/841; 514/843		Crowley, William F. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	435/360; 514/2; 514/838; 514/893; 514/894; 530/350; 530/399		Roos, Filip et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	435/6; 435/69.1; 435/7.4; 435/7.94; 435/975; 436/501; 436/518; 436/531; 436/548; 530/388.22 ; 530/388.26 ; 530/389.6; 530/391.3		Godowski, Paul J. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	435/252.3; 435/320.1; 435/325; 435/419; 435/71.1; 536/23.1; 536/23.5		Hotten, Gertrud et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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15	US 5286654	<input type="checkbox"/>
16	US 5453492	<input type="checkbox"/>
17	US 5545616	<input type="checkbox"/>
18	US 5654404	<input type="checkbox"/>
19	US 5658876	<input type="checkbox"/>
20	US 5703048	<input type="checkbox"/>
21	US 5766863	<input type="checkbox"/>
22	US 5807713	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages	Title	Current OR
23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5824637 A	19981020	18	Activin antagonists as novel contraceptives	514/2
24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5831050 A	19981103	31	Morphogen cell surface receptor	536/23.5
25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5861479 A	19990119	31	Morphogen cell surface receptor	530/324
26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5885794 A	19990323	28	Recombinant production of vertebrate activin receptor polypeptides and identification of receptor DNAs in the activin/TGF-.beta. superfamily	435/69.1
27	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5891650 A	19990406	112	Kinase receptor activation assay	435/7.21
28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5914237 A	19990622	111	Kinase receptor activation assay	435/7.21
29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5981483 A	19991109	42	Compositions comprising modulators of cytokines of the TGF-.beta. superfamily	514/12

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
23	514/12; 514/13; 514/21; 514/841; 514/843		Crowley, William F. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	530/350; 530/395; 536/24.31; 536/24.33		Jin, Donald F. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	435/6; 435/7.23; 530/399; 536/23.5; 536/23.51; 536/24.33		Jin, Donald F. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	435/252.3; 435/254.11 ; 435/320.1; 435/325; 435/6; 536/23.5; 536/24.31		Mathews, Lawrence S. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	435/15; 435/7.4; 435/7.94; 436/501; 436/518; 436/531; 436/548; 530/388.22 ; 530/388.26 ; 530/389.6		Godowski, Paul J. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	435/15; 435/7.4; 435/7.94; 436/501; 436/518; 436/531; 436/548; 530/388.22 ; 530/388.26 ; 530/389.6		Godowski, Paul J. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	514/2; 514/8; 514/885; 530/350		Dennis, James W. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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23	US 5824637	<input type="checkbox"/>
24	US 5831050	<input type="checkbox"/>
25	US 5861479	<input type="checkbox"/>
26	US 5885794	<input type="checkbox"/>
27	US 5891650	<input type="checkbox"/>
28	US 5914237	<input type="checkbox"/>
29	US 5981483	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages	Title	Current OR
30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6004937 A	19991221	6	Use of follistatin to modulate growth and differentiation factor 8 [GDF-8] and bone morphogenic protein 11 [BMP-11]	514/21
31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6093547 A	20000725	31	Morphogen cell surface receptor and screening for morphogen analogs	435/7.1
32	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6132988 A	20001017	47	DNA encoding a neuronal cell-specific receptor protein	435/69.1
33	<input type="checkbox"/>	<input type="checkbox"/>	US 6162896 A	20001219	33	Recombinant vertebrate activin receptors	530/350
34	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6171584 B1	20010109	43	Method of treatment with growth/differentiation factors of the TGF-.beta. family	424/85.1
35	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6210899 B1	20010403	85	Use of a BMP protein receptor complex for screening bone metabolism actives and cells co-transfected with a type II BMP receptor and type I BMP receptor	435/7.1
36	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6287784 B1	20010911	119	Kinase receptor activation assay	435/7.1

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
30	435/252.3; 435/320.1; 435/325; 435/69.1; 435/69.4; 514/8; 530/350; 530/397; 530/399; 536/23.1; 536/23.5; 536/23.51; 536/24.33		Wood, Clive R. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	435/7.2; 435/810; 435/975		Jin, Donald F. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	435/252.1; 435/320.1; 435/325; 536/23.1; 536/23.5		Sugino, Hiromu et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	435/69.1; 530/395		Mathews, Lawrence W. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	435/252.3; 435/320.1; 435/325; 435/471; 435/69.5; 435/71.1; 514/12; 514/2; 514/8; 514/885; 536/23.1; 536/23.5; 536/24.1; 536/24.31		Hotten, Gertrud et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	435/7.2; 435/7.93; 436/501; 530/350		Rosenbaum, Jan Susan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	435/15; 435/194; 435/325; 435/69.1; 435/7.2		Godowski, Paul J. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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30	US 6004937	<input type="checkbox"/>
31	US 6093547	<input type="checkbox"/>
32	US 6132988	<input type="checkbox"/>
33	US 6162896	<input type="checkbox"/>
34	US 6171584	<input type="checkbox"/>
35	US 6210899	<input type="checkbox"/>
36	US 6287784	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages	Title	Current OR
37	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6291206 B1	20010918	38	BMP receptor proteins	435/69.1
38	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6294335 B1	20010925	11	Method of diagnosing abnormal cell growth	435/6
39	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6306622 B1	20011023	61	cDNA encoding a BMP type II receptor	435/69.1
40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6407060 B1	20020618	41	Method for enhancing functional recovery following central nervous system ischemia or trauma	514/12
41	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6455262 B1	20020924	31	Receptor polypeptides and their production and uses	435/7.1
42	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 200131004 A	20030520		New brain protein with affinity to activin receptors for treatment and prevention of brain and nerve disorders, such as Alzheimer's disease, Parkinson's disease and Huntington's disease	
43	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 2003006057 A	20030123	NA	Treatment and/or prophylaxis of a disease associated with fibrosis such as ulcerative colitis, Crohn's Disease, liver fibrosis or cirrhosis, in a vertebrate, comprises using an activin antagonist	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
37	435/252.3; 435/254.11 ; 435/320.1; 435/325; 536/23.1; 536/23.5; 536/23.51		Wozney, John M. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	435/252.3; 435/254.11 ; 435/320.1; 435/325; 435/69.1; 536/23.1; 536/23.5		Risbridger, Gail Petuna et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	435/320.1; 435/325; 435/365; 530/350; 536/23.1; 536/23.5		Rosenbaum, Jan Susan et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	514/21; 530/324; 530/350		Charette, Marc F. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	435/7.2; 436/501		Cox, Edward T. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42			SUGINO, H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43			DE KRESTER, D et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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37	US 6291206	<input type="checkbox"/>
38	US 6294335	<input type="checkbox"/>
39	US 6306622	<input type="checkbox"/>
40	US 6407060	<input type="checkbox"/>
41	US 6455262	<input type="checkbox"/>
42		<input type="checkbox"/>
43		<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages	Title	Current OR
44	<input type="checkbox"/>	<input type="checkbox"/>	WO 9507982 A1	19950323	83	ACTIVIN RECEPTORS-LIKE KINASE (ALK), BELONGING TO THE TGF RECEPTOR FAMILY AND/OR TO THE BMP RECEPTOR FAMILY	
45	<input type="checkbox"/>	<input type="checkbox"/>	WO 9611259 A1	19960418	58	TGF- beta 1, ACTIVIN RECEPTORS 1 AND 3	